

## WHAT IS CLAIMED:

### 1. A mosquito and insect control system comprising:

- a container for containing a liquid insecticide, a fill tube connected thereto;
- a sight glass engaged with the container for determining the insecticide level therein;
- a first float and a second float within the container;
- the first float operable to detect a first low level of insecticide condition within the container tank and visually indicate said first low level condition;
- the second float operable to detect a second low level of insecticide condition within the container tank and to de-energize the pump upon said second low level condition;
- a distribution system for delivering liquid insecticide from the container to a plurality of remote locations;
- a canned pump in operable engagement with the distribution system for pumping the liquid insecticide from the container to the plurality of remote locations;
- a programmable digital timer for controlling the pump operable to energize and de-energize the pump for a pre-selected duration of time at a pre-selected time;
- a handheld wireless remote control unit to manually energize and de-energize the canned pump from a remote location;
- a hardwired remote control unit to manually energize and de-energize the canned pump from a remote location; and
- nozzles at the removed end of the distribution system to direct the spray of insecticide, the nozzles being atomizing nozzles comprised of a stainless steel housing, a

non-corrosive, bronze fine-mesh filter, and a check valve to reduce or prevent dripping at the termination of a spray interval; and

a pressure gauge to monitor the pressure of the insecticide within the distribution system.

2. A mosquito and insect control system comprising:

a container for containing a liquid insecticide;

a distribution system for delivering liquid insecticide from the container to a plurality of remote locations;

nozzles at the removed end of the distribution system to direct the spray of insecticide; and

a pump in operable engagement with the distribution system for pumping the liquid insecticide from the container to the plurality of remote locations; and  
a programmable digital timer for controlling the pump operable to energize and de-energize the pump for a pre-selected duration of time at a pre-selected time.

3. The mosquito and insect control system of claim 2 wherein the container is constructed of polyethylene.

4. The mosquito and insect control system of claim 2 wherein the pump is a canned pump.

5. The mosquito and insect control system of claim 2 wherein the distribution system is partially embedded within the structure of a building.
6. The mosquito and insect control system of claim 2 further comprising a sight glass to ascertain the volume of remaining insecticide.
7. The mosquito and insect control system of claim 2 further comprising a remote override unit and wherein the programmable digital timer controller is adapted to energize the pump and to de-energize the pump in response to a signal from the remote override.
8. The mosquito and insect control system of claim 7 wherein the pump remains energized only so long as a continuous signal from the remote override unit is received; the pump being de-energized when the signal terminates.
9. The mosquito and insect control system of claim 7 wherein the pump is energized in response to a first signal from the remote override unit and is de-energized in response to a second signal from the remote override unit.
10. The mosquito and insect control system of claim 2 wherein the programmable digital timer controller is adapted to operate from an alternating current power source.

11. The mosquito and insect control system of claim 2 wherein the programmable digital timer controller includes a backup direct current power source.
12. The mosquito and insect control system of claim 2 further comprising:
  - a first float and a second float;
  - the first float operable to detect a first low level of insecticide condition within the container tank and visually indicate said first low level condition; and
  - the second float operable to detect a second low level of insecticide condition within the container tank and to de-energize the pump upon said second low level condition.
13. The mosquito and insect control system of claim 2 further comprising a low level sensor to signal the programmable digital timer controller at pre-selected levels of insecticide within the container.
14. The mosquito and insect control system of claim 13 wherein the programmable digital timer controller is adapted to visually indicate a low level of insecticide condition within the container.
15. The mosquito and insect control system of claim 13 wherein the programmable digital timer controller is adapted to de-energize the pump upon receiving a low level signal from the low level sensor.

16. The mosquito and insect control system of claim 2 wherein the nozzle ends are flexible to permit directional adjustments of the insecticide spray.
17. An automated method of applying insecticide to an area providing a pump, a container, and a programmable digital timer, adapted to receive a liquid insecticide, comprising the steps of:
  - defining discrete intervals for insecticide application;
  - defining the duration of application for each of the defined intervals;
  - initiating the application of insecticide by energizing the pump at the beginning of each interval; and
  - terminating the application of insecticide by de-energizing the pump at the expiration of the allotted time for the indicated interval.
18. The method of claim 17 wherein the intervals may be defined by time of day or day of week and time of day.
19. The method of claim 17 wherein 1 to 288 intervals may be defined for a 24 hour period.
20. The method of claim 17 wherein the duration of application may range from 1 second to 99 seconds.

21. The method of claim 17 wherein a low insecticide level condition is automatically detected and terminates application of insecticide.
22. The method of claim 17 further providing a remote signal transmitter wherein a user-initiated signal initiates and terminates application of insecticide.